

March-16-12 1:58:42 PM

Page 1

**Accept**

**\*N900040100\***

Setup Start \*NS1\*

Stop \*NS2\*

**\*6\***

**Start Date:** 16/03/2012    **Start Qty:** 6.00

\*6\*

**Required Date:** 22/03/2012      **Req'd Qty:** 6.00

**Cust Item ID:**

**Customer:**

**Reference:**

Approvals: Process Plan: MLJ

**Date:** 12/03/16

**Tooling:**

**Date:**

Run Start \*NR1\*

Q6:

Date:

**SPC (Y/N):**

Date:

Stop \*NR2\*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
<b>Draw Nbr</b>	<b>Revision Nbr</b>								
D5955	Rev B								
100		0.00							
*100*	HAAS CNC VERTICAL MACHINING #1								
HAAS I	Memo	0.00							
HAAS CNC vertical machine #1 1-Machine as per folio D5955, Ensure Batch Number is entered 2-Machine Keyway3-Debur & Tumble									
110		0.00							
*110*	QC1- Inspect dimensions to dimension sheet								
QC	Memo	0.00							
Quality Control									
120		0.00							
*120*	QC8- Inspect parts - second check								
QC	Memo	0.00							
Quality Control									

March-16-12 1:58:42 PM

Page 2

**Accept**

Setup Start \*NS1\*

Stop \*NS2\*

**Start Date:** 16/03/2012    **Start Qty:** 6.00

\*6\*

**Cust Item ID:**

**Required Date:** 22/03/2012      **Req'd Qty:** 6.00

\*6\*

**Customer:**

**Reference:**

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Run	Start	*NR1*
	Stop	*NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

130	Chemical Conversion Coat per QSI005 4.1	0.00			
<b>*130*</b>					
HandFinish	Memo	0.00		<u>8</u>	<u>MG 126-2</u>
Hand Finishing					

140 White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum 0.00

\*140\*

Powdercoat

Powder Coating

Mémo 0.00

START TIME: 1h40 OVEN TEMPERATURE: 320°C

FINISH TIME: 2h10

8 & (DP) 12/06

150	QC3- Inspect Part Finish	0.00	
<b>*150*</b>			
QC	<b>Memo</b>	0.00	See d H.C. nlo
Quality Control			

**Work Order ID 81683****\*81683\***

Page 3

March-16-12 1:58:42 PM

Item ID: D5955

Accept

**\*N900040100\***Setup Start **\*NS1\***

Revision ID:

Item Name: Saddle, 205

Stop **\*NS2\***

Start Date: 16/03/2012 Start Qty: 6.00

**\*6\***

Cust Item ID:

Required Date: 22/03/2012 Req'd Qty: 6.00

**\*6\***

Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Run Start **\*NR1\***Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
160	Identify as per dwg & Stock Location: <u>430</u>	0.00							
<b>*160*</b>									
Packaging	Memo	0.00							
Packaging									
170	QC21- Final Inspection - Work Order Release	0.00							
<b>*170*</b>									
QC	Memo	0.00							
Quality Control									

8012/6/2612/6/26

MF

12-06-26

# Picklist Print

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Page 1

Work Order ID: 81683

\*81683\*

Parent Item: D5955

\*D5955\*

Parent Item Name: Saddle, 205

Start Date: 16/03/2012

Required Date: 22/03/2012

Start Qty: 6.00

Required Qty: 6.00

Comments: IPP Rev:E Re-Format 05-11-29 JLM  
IPP Rev:F ecn826 06.12.06 ec

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6101-013		Manufactured	No			100	Each	7.0000	1	6			

\*D6101-013\*

Saddle Billet

\*\*

Location

Loc Qty

Loc Code

MAT047

7

46413

7

81925

8

FK 12/06/15

<b>DART AEROSPACE LTD</b>		<b>Work Order:</b>	81683
<b>Description:</b> Outer Aft Saddle		<b>Part Number:</b>	D5955
<b>Inspection Dwg:</b> D5955	<b>Rev:</b> B	<b>Page 1 of 1</b>	

Inspect dimensions highlighted on inspection sheet drawing and record below:

Dim	Min	Max	Go/No Go Gauge	Recorded Actual Dimensions				By	Date
				1	2	3	4		
A	0.438	0.443		.439	.439	.439	.439		
B	1.745	1.755		1.750	1.750	1.750	1.750		
C	5.245	5.255		5.250	5.250	5.250	5.250		
D	6.995	7.005		7.000	7.000	7.000	7.000		
E	5.240	5.260		5.250	5.250	5.250	5.250		
F	4.745	4.755		4.750	4.750	4.750	4.750		
G	0.315	0.322		.320	.320	.320	.320		
H	1.522	1.532		1.526	1.526	1.526	1.527		
I	3.048	3.058		3.052	3.053	3.053	3.053		
J	4.575	4.585		4.580	4.580	4.580	4.580		
K	0.315	0.322		.316	.320	.320	.320		
L	0.495	0.505		.500	.500	.500	.500		
M	0.490	0.510		.501	.500	.500	.500		
N	1.865	1.885		1.885	1.883	1.880	1.880		
O	7.990	8.010		8.001	8.001	8.000	8.000		
P	2.240	2.260		2.250	2.251	2.253	2.252		
Q	0.307	0.312		.309	.309	.309	.309		
R	0.760	0.765		.760	.760	.760	.760		
S	0.490	0.510		.500	.502	.500	.500		
T	1.625	1.645		1.627	1.628	1.629	1.630		
U	2.000	2.020		2.000	2.001	2.0018	2.002		
V	0.023	0.043		.033	.033	.033	.033		
W									
X									
Y									
Z									
AA									
AB									
AC									
AD									
AE									
AF									
Accept/Reject									

Measured by: *am*  
Date: 12/06/19

Audited by: *S*  
Date: 12/6/20

Rev	Date	Change	Revised by	Approved
A	99.04.19	New Issue	RF	
B	02.12.13	Reformat; Added Dim. T-U & DT8682, DT8686	KJ/RF	
C	06.11.20	Added dimension V	KJ/JLM	
D	06.12.06	Dimensions L,N,P revised	KJ/EC	
E	07.06.15	Dimension G revised	KJ/JLM	
F	08.04.21	Dimension E revised	KJ/DD	
G	08.08.05	Dimension K revised	KJ/DD	

<b>DART AEROSPACE LTD</b>		<b>Work Order:</b>	81683
<b>Description:</b> Outer Aft Saddle		<b>Part Number:</b>	D5955
<b>Inspection Dwg:</b> D5955		<b>Rev:</b> B	<b>Page 1 of 1</b>

Inspect dimensions highlighted on inspection sheet drawing and record below:

Dim	Min	Max	Go/No Go Gauge	Recorded Actual Dimensions				By	Date
				15	16	17	18		
A	0.438	0.443		.439	.440	.440	.440		
B	1.745	1.755		1.750	1.750	1.750	1.750		
C	5.245	5.255		5.250	5.250	5.250	5.250		
D	6.995	7.005		7.000	7.000	7.000	7.000		
E	5.240	5.260		5.250	5.250	5.250	5.250		
F	4.745	4.755		4.750	4.750	4.750	4.750		
G	0.315	0.322		.320	.320	.320	.320		
H	1.522	1.532		1.527	1.527	1.527	1.527		
I	3.048	3.058		3.053	3.053	3.053	3.053		
J	4.575	4.585		4.580	4.580	4.580	4.580		
K	0.315	0.322		.320	.320	.320	.320		
L	0.495	0.505		.500	.500	.500	.500		
M	0.490	0.510		.500	.501	.499	.499		
N	1.865	1.885		1.880	1.879	1.882	1.880		
O	7.990	8.010		8.000	8.000	8.000	8.000		
P	2.240	2.260		2.251	2.251	2.253	2.252		
Q	0.307	0.312		.310	.310	.309	.309		
R	0.760	0.765		.760	.760	.760	.760		
S	0.490	0.510		.500	.500	.501	.500		
T	1.625	1.645		1.630	1.629	1.629	1.630		
U	2.000	2.020		2.002	2.001	2.0005	2.002		
V	0.023	0.043		.033	.033	.033	.033		
W									
X									
Y									
Z									
AA									
AB									
AC									
AD									
AE									
AF									
Accept/Reject									

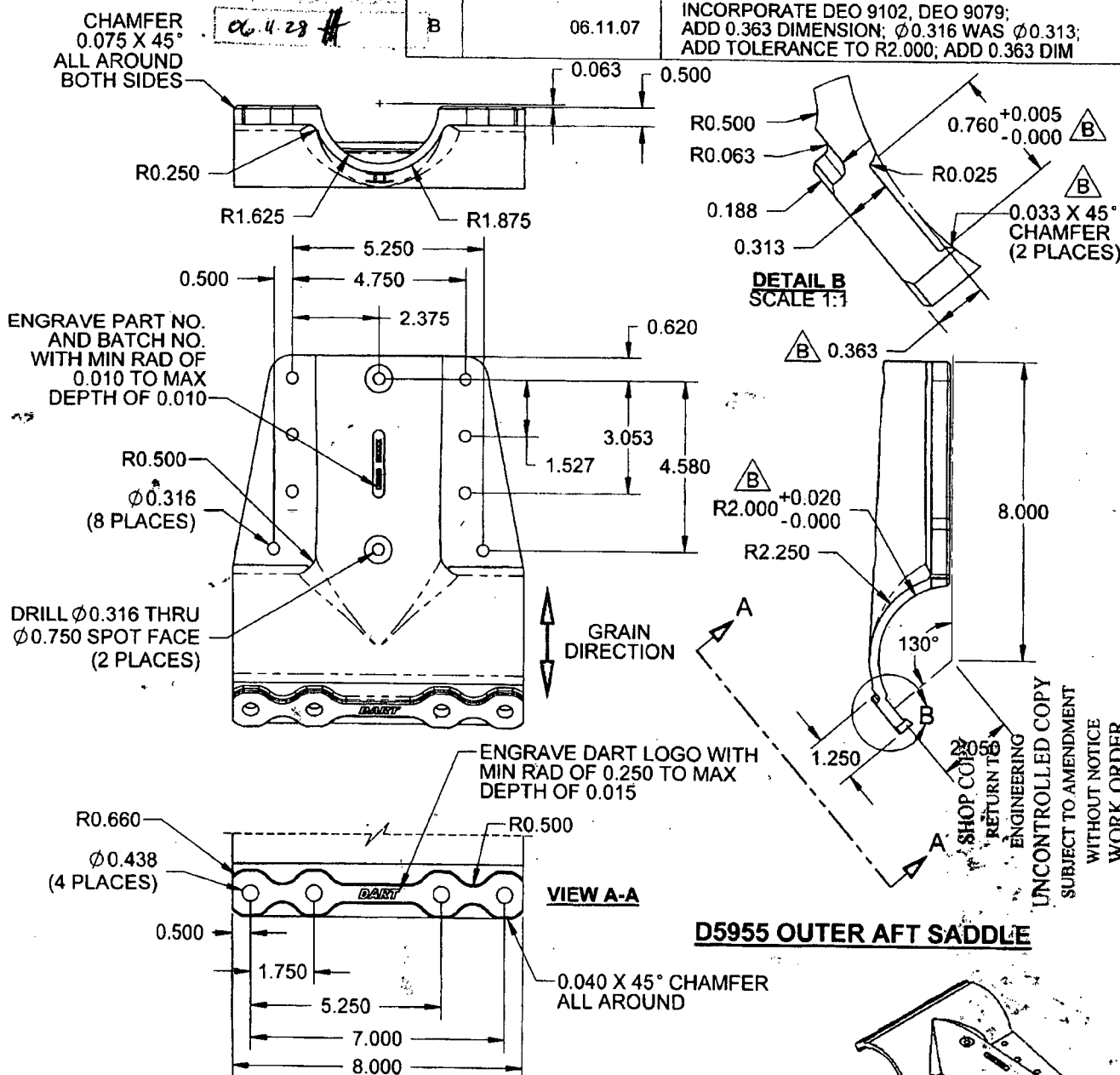
Measured by:	amf
Date:	12/06/19

Audited by:	sj
Date:	12/06/20

Rev	Date	Change	Revised by	Approved
A	99.04.19	New Issue	RF	
B	02.12.13	Reformat; Added Dim. T-U & DT8682, DT8686	KJ/RF	
C	06.11.20	Added dimension V	KJ/JLM	
D	06.12.06	Dimensions L,N,P revised	KJ/EC	
E	07.06.15	Dimension G revised	KJ/JLM	
F	08.04.21	Dimension E revised	KJ/DD	
G	08.08.05	Dimension K revised	KJ/DD	



DESIGN <b>BW</b>	DRAWN BY <b>CB</b>	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
CHECKED <b>LE</b>	APPROVED <b>HT</b>	DRAWING NO. <b>D5955</b>	REV. B SHEET 1 OF 1
DATE <b>06.11.07</b>	TITLE <b>OUTER AFT SADDLE</b>		
REV	DATE	DESCRIPTION	
A	97.05.06	NEW ISSUE	
B	06.11.07	INCORPORATE DEO 9102, DEO 9079; ADD 0.363 DIMENSION; $\phi 0.316$ WAS $\phi 0.313$ ; ADD TOLERANCE TO R2.000; ADD 0.363 DIM	

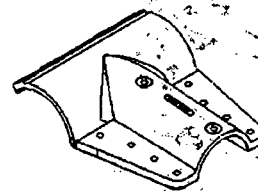


**NOTES:**

- 1) MATERIAL: ALUMINUM 7075-T7351 PER QQ-A-250/12 (MAKE FROM D6101-013 SADDLE BILLET, 7075)
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 POWDER COAT GLOSS WHITE (4.3.5.1) PER DART QSI 005 4.3 B
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED
- 5) BREAK ALL SHARP EDGES 0.010 TO 0.020

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**ISOMETRIC VIEW**  
SCALE 1:8

Work Order ID 81925

\*81925\*

Page 1

March 21, 2012 8:10:06 AM

Item ID: D6101-013

Accept

\*N900040100\*

Setup Start

\*NS1\*

Revision ID:

Stop

\*NS2\*

Item Name: Saddle Billet

Start Date: 3/21/12 Start Qty: 20.00

\*20\*

Cust Item ID:

Required Date: 4/05/12 Req'd Qty: 20.00

\*20\*

Customer:

Reference:

Run Start

\*NR1\*

Approvals: Process Plan: CG Date: 12/03/21 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Stop

\*NR2\*

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D6101	Rev B								
100	PURCHASING	0.00							
*100*									
Purchasing	Memo	0.00							
Purchasing	Issue P/O: <u>16517</u>								
	a) Description: Alluminum billet								
	b) 10.100" x 8.250" x 2.50" thick (+0.030 / -0.000)								
	c) Tolerance on all dimensions are +0.030/-0.000"								
	d) Grain direction along 10.100" length								
	e) Material: 7075-T7351 (QQ-A-250/12)								
	f) Material certification required								
110	Receive & Inspect for Damage & Mat'l Certs	0.00							
*110*									
Packaging	Memo	0.00							
Packaging	Ensure material certification is attached								

CG 12/03/21 (20)

Pg 4/5 (20)



# Work Order ID 81925

**\*81925\***

Page 2

March 21, 2012 8:10:06 AM

Item ID: D6101-013 Accept **\*N9000040100\*** Setup Start **\*NS1\***  
 Revision ID: Stop **\*NS2\***  
 Item Name: Saddle Billet

Start Date: 3/21/12 Start Qty: 20.00 **\*20\*** Cust Item ID:  
 Required Date: 4/05/12 Req'd Qty: 20.00 **\*20\*** Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120 <b>*120*</b> QC Quality Control	QC6- Inspect dimensions to drawing  Memo Ensure Material certification comply to Dwg D6101	0.00  0.00	OK 12/04/06			20	0		
130 <b>*130*</b> Packaging Packaging	Identify as per dwg & Stock Location: 74747  Memo	0.00  0.00				20	0		
140 <b>*140*</b> QC Quality Control	QC21- Final Inspection - Work Order Release  Memo	0.00  0.00	OK 12/04/06						

12/4/10  
CL 12/04/10

# Picklist Print

Page 1

March 21, 2012 8:10:06 AM

Work Order ID: 81925  
Parent Item: D6101-013  
Parent Item Name: Saddle Billet

Start Date: 3/21/12

Required Date: 4/05/12

Start Qty: 20.00

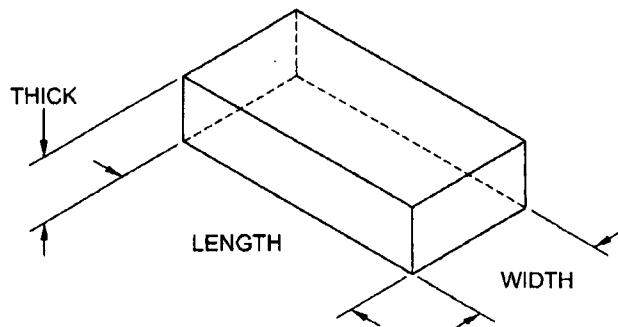
Required Qty: 20.00

Comments: IPP A: 01.05.04New IssueEC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6101-013P Saddle billet		Purchased	No			110	Each	0.0000	1	20			

*Pc 1/4/10 (20)*

# SPECIFICATION CONTROL DRAWING



PURCHASE MATERIAL ACCORDING TO THE FOLLOWING TABLE. SPECIFY ALLOY, LENGTH x WIDTH x THICK (+0.030/-0.000), AND GRAIN DIRECTION AS SHOWN.

TOLERANCES ON ALL DIMENSIONS ARE +0.030/-0.000.

ALL DIMENSIONS ARE IN INCHES.

**B** ACCEPTABLE SPECIFICATIONS FOR 7075-T7351 ALUMINUM ARE AMS-QQ-A-250/12, QQ-A-250/12, OR ASTM B209

Part No.	Alloy	Length	Width	Thick	Grain Direction
D6101-001	7075-T7351 (QQ-A-250/12)	6.000	6.250	2.000	Along 6.000 Length
D6101-003	7075-T7351 (QQ-A-250/12)	7.875	6.250	2.000	Along 7.875 Length
D6101-005	7075-T7351 (QQ-A-250/12)	5.000	8.250	2.500	Along 5.000 Length
D6101-007	7075-T7351 (QQ-A-250/12)	7.750	8.250	2.500	Along 7.750 Length
D6101-009	7075-T7351 (QQ-A-250/12)	8.700	8.250	2.500	Along 8.700 Length
D6101-011	7075-T7351 (QQ-A-250/12)	9.700	8.250	2.500	Along 9.700 Length
D6101-013	7075-T7351 (QQ-A-250/12)	10.100	8.250	2.500	Along 10.10 Length
D6101-015	7075-T7351 (QQ-A-250/12)	9.450	6.250	2.500	Along 9.450 Length
D6101-017	7075-T7351 (QQ-A-250/12)	6.350	6.250	2.250	Along 6.350 Length

**B**

**RELEASED**  
09/07/15/WP

CL12/03/21  
W10: 81925

B	ADDED D6101-015/-017, ADD ASTM B209	RF	09.04.23
A	NEW ISSUE	CP	01.03.30
REV.	DESCRIPTION	BY	DATE
DESIGN	CP	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. B
MFG. APPR.	<i>[Signature]</i>	D6101	SHEET 1 OF 1
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	SADDLE BILLET, 7075	NTS
DATE	09.04.23	<small>COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

**Castle Metals®**

A. M. Castle &amp; Co.

**BORDEREAU DE MARCHANDISES**

Page 1 of 2

No de Formulaire d'Emballage / Shipment No: 1258678

<b>Expédié de / Ship From:</b> A. M. Castle & Co. (Canada) Inc. MONTREAL 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		<b>Vendu à / Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		<b>Expédié à / Ship To:</b> WILL CALL-MONTREAL 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		<b>Livré à / Deliver To:</b> WILL CALL-MONTREAL 835 SELKIRK AVENUE POINTE CLAIRE, QC H9R 3S2 CA			
<b>Date d'expédition / Date Shipped</b> 04-APR-2012		<b>F.O.B.</b> ORIGIN		<b>Modalités de transport / Freight Terms</b> Prepaid		<b>Transporteur / Carrier</b> MANITOULIN		<b>No du Bon de connaissance / BOL No</b> 1258678-2	

Destination finale / Final Destination Branch - MON

**Détails d'expédition / Shipment Details**

N° de commande / Order No	N° de ligne / Line No	N° d'article / Item No	Description	Qté commandée / Ordered Qty	Qté Facturée / Invoice Qty
2088264	1	752241.MO	2.5000.PL.7075.T7351.ALUMINUM.USI.48.5000.144.5000 CUT 2SIDED TO 8.25 IN ( + .0310/- .0000 IN (GRAIN TO RUN ALONG 10.1")) X 10.1 IN ( + .0310/- .0000 IN (GRAIN TO RUN ALONG 10.1")) - ALUMINUM PLATE SAW SPECIFICATIONS: QQ-A-250/12	20.00 PCS	20.0000 PCS
<b>N° de bon de commande / Purchase Order No</b> 16517			<b>Nbre de pièces / Part Number</b> YOUR ITEM NUMBER: D6101-013		

<b>Détails / Details</b>		<b>No de coulée / Heat Number</b>	<b>Code méc / Mech Id</b>	<b>Pièce s / PCS</b>	<b>Largeur (Pouce) / Width (IN)</b>	<b>Longueur (Pouce) / Length (IN)</b>	<b>Qté expédiée / Shipped Qty(LBS)</b>
<b>N° de livraison / Delivery No :</b>	<b>Usine / Mill</b>						
		572947A0		8			172.36
		572947A0		10			215.45
		569096A1		2			43.09

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SHIP TO: A M CASTLE & CO 3050 SOUTH HYDRAULIC WICHITA, KS 67216
SOLD TO: AM CASTLE & CO- SOLD TO 1420 KENSINGTON RD SUITE 220 OAK BROOK, IL 60523

# KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4250487

CUSTOMER PO NUMBER: 134472	WORK PACKAGE:	CUSTOMER PART NUMBER: 752241 AMC CA-15413B R 3	SHIP RUN/LOAD: 102217/10	GOV'T CONTRACT NUMBER:		
KAISER ORDER NO: 1124704	LINE ITEM: 1	SHIP DATE: 10-JAN-2012	ALLOY: 7075	CLAD: BARE	TEMPER: T7351	PRODUCT DESCRIPTION: Sawed Plate
WEIGHT SHIPPED: 7164 LB	QUANTITY: 4 PCS EST.	B/L NUMBER: 2035227	GAUGE: 2.5000 IN	DIAMETER/WIDTH: 48.500 IN	LENGTH: 144.500 IN	

MHU 1556670: LOT 572947A0: 2 pieces;  
MHU 1556676: LOT 569096A1: 2 pieces;

### Certified Specifications

AMS 4078/RevJ  
ASTM B 209/Rev10  
BSS 7055/RevA  
DPS 4.713/RevAH  
GSS16100/RevG/Amd1

AMS-QQ-A-250/12  
ASTM B 594/Rev09  
CMMP 025/RevT  
EAC MS1011/RevE  
MMS 159/RevR

AMS-STD-2154/Rev98  
BAC 5439/RevH  
CSTI 006/RevD  
GAMPS 9101/RevB  
PS 21211/RevL

### Test Results

Test Code: 4297

Lot: 569096A1 Cast 445

Drop 16

Ingot 3

Melted in USA

(ASTM E8/B557)  
(EN 2002-1)

Tensile: Temper  
T7351

Dir / # Tests  
LT / 2 (Min:Max)

Ultimate KSI (MPA)  
70.5 : 70.6  
(486 : 487)

Yield KSI (MPA)  
59.3 : 59.8  
(409 : 412)

Elongation %  
11.2 : 11.8

(ASTM E1004)  
(EN 2004-1)

Conductivity %IACS : 40.9 Min  
(MS/M) : 23.7 Min

41.7 Max  
24.2 Max

(ASTM E1251)  
Chemistry:  
Actual

SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
0.09	0.19	1.4	0.04	2.4	0.20	5.6	0.03	0.01	0.01	TOT 0.05





Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4250487

Lot: 572947A0    Cast 445    Drop 37    Ingot 2    Melted in USA

(ASTM E8/B557)  
(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T7351	LT / 2 (Min:Max)	70.4 : 70.5 (485 : 486)	59.1 : 59.3 (407 : 409)	11.7 : 11.8

(ASTM E1004)  
(EN 2004-1)

Conductivity %IACS :	41.1 Min	41.4 Max
(MS/M) :	23.8 Min	24.0 Max

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual	0.07	0.17	1.4	0.06	2.5	0.20	5.8	0.03	0.01	0.01	TOT 0.05

### ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
7075												
MIN	0.00	0.00	1.2	0.00	2.1	0.18	5.1	0.00	0.00	0.00	EACH	0.05
MAX	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.05	TOT	0.15

Aluminum Remainder

### TEST NOTES

Metal represented by this test report was 100% immersion ultrasonically tested from one side and meets the Class A and Class B requirements of all specifications referenced on this test report.

### CERTIFICATION

KAISER ALUMINUM FABRICATED PRODUCTS, LLC (KAISER) HEREBY CERTIFIES THAT METAL SHIPPED UNDER THIS ORDER WAS MELTED IN THE UNITED STATES OF AMERICA OR A QUALIFYING COUNTRY PER DFARS 225.872-1(a), WAS MANUFACTURED IN THE UNITED STATES OF AMERICA, AND MEETS THE REQUIREMENTS OF DFARS 252.225 FOR DOMESTIC CONTENT. THIS MATERIAL HAS BEEN INSPECTED, TESTED, AND FOUND IN CONFORMANCE WITH THE REQUIREMENTS OF THE APPLICABLE SPECIFICATIONS AS INDICATED HEREIN. ALL METAL WHICH IS SOLUTION HEAT TREATED COMPLIES WITH AMS 2772. ANY WARRANTY IS LIMITED TO THAT SHOWN ON KAISER'S STANDARD GENERAL TERMS AND CONDITIONS OF SALE. TEST REPORTS SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF KAISER ALUMINUM FABRICATED PRODUCTS, LLC LABORATORY. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTIRE ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW. ISO-9001:2000 CERTIFIED.

  
MIKE KLOCKE, LABORATORIES SUPERVISOR

